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160686

"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT

Job Order 71-475

TIRF 78-0027

(E80-10250) AS-BUILT DESIGN SPECIFICATION
FOR SCATTER PLOTS FOR DIRECT WHEAT (Lockheed
Electronics Co.) 66 p HC A04/MF A01

N80-30833

CSCL 02C

63/43 Unclass
00250

Prepared By
Lockheed Electronics Company, Inc.
Systems and Services Division
Houston, Texas

Contract NAS 9-15200

For

EARTH OBSERVATIONS DIVISION
SCIENCE AND APPLICATIONS DIRECTORATE



National Aeronautics and Space Administration
LYNDON B. JOHNSON SPACE CENTER
Houston, Texas

October 1978

LEC-12822

CHANGE 1 INSERTED

80N 30833

JSC-14546

CHANGE SHEET
FOR
"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT
TIRF 79-0001

Change 1
March 1979



J. I. Morrow
J. I. Morrow, Supervisor
Scientific Applications Software Section

Page 1 of 27 pages
(with enclosures)

After the attached replacement pages have been inserted and the following pen and ink changes have been made, insert this change sheet between the cover and the title page and write on the cover "Change 1 inserted".

Note: A black bar in the margin of the replacement page indicates the information that was changed or added. Added and replaced pages are designated by a notation in the lower righthand corner.

1. Remove page 2-1 and insert replacement page 2-1.
2. Pages 3-10, para. 3.2, 3.3, change "called subroutines" to "calling routine".
3. Page 3-13, para. 3.2.5.1, change "SPLT" to "SWPLT".
4. Page 3-13, para. 3.2.5.3, change "(fig)" to "(fig 4)".
5. Remove Figure 4 (following page 3-13) and insert replacement Figure 4.
6. Remove page 3-14 and insert replacement page 3-14.
7. Remove page 3-16 and insert replacement page 3-16.
8. Remove CAMPLT output and CAMPLT listing (22 pages following page 3-17) and insert replacement CAMPLT output and CAMPLT listing (22 pages).

Signature of person incorporating changes

Date

LEC-12822

JSC- 14546

**"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT**

Job Order 71-475

TIRF 78-0027

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HOUSTON, TEXAS**

October 1978

LEC- 12822

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1. SCOPE

This document describes the programs which together provide the capability of producing scatter plots in two different projections for use by CAMS in implementing the direct wheat procedure.

2. APPLICABLE DOCUMENTS

1. Giddings, L. E.; etal.
"As-Built" Design Specification for the CAMS Image-100 Hybrid System. August 1977 Job Order 71-195, LEC-10822, Contract NAS-9-15800.
2. Earth Resources Data Format Control Book, Vol 1 Section 6 PHO-TR543.
3. CAMS/CAS Interface Tape Interface Control Document (Rev. B) Feb 1978 LACIE - C00708 (Rev. B) JSC-11328.
4. Software Requirements for Scatter Plots to Aid With Direct Wheat Procedures (TIRF 78-0027) 5/18/78.
5. Large Area Crop Inventory Experiment (LACIE) Users Guide Vol IBM - Federal Systems Division Contract NAS 9-14350.
6. TIRF 79-0001, Landsat "C" Upgrade to "CAMPLT".

Change 1
March 8, 1979

3. SYSTEM DESCRIPTION

3.1 HARDWARE DESCRIPTION

Not applicable.

3.2 SOFTWARE DESCRIPTION

The programs described herein provide the capability to load the spring wheat data file with spectral values from spectral unload tapes, and analyst labels from CAMS/CAS Interface tapes, then, under analyst control, produce spectral plots using this data. These programs are run separately in batch mode.

3.2.1 SOFTWARE COMPONENT NO. 1 (DOTLDB)

The program DOTLDB (DOT LOAD BATCH) reads a spectral unload utility tape and stores the spectral values found there for the 209 grid points in the Spring Wheat Data File. This data is loaded in 'natural' dot order.

3.3. DATA FLOW

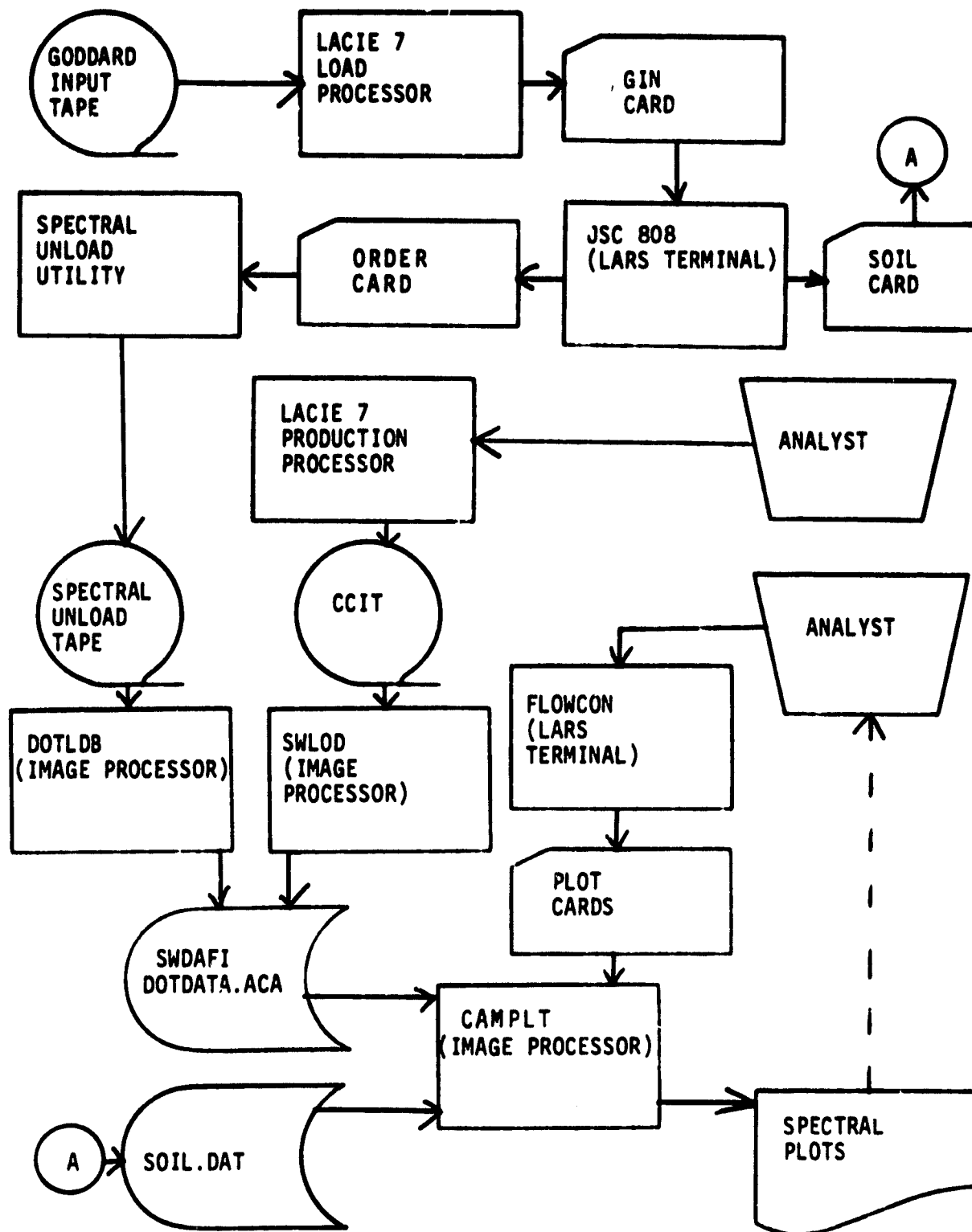


Figure 1 Data Flow

3.2.1.1 Linkages

DOTLDB run in batch mode. It calls several entries to LECTAP: EBTASC, IDATE, SWAB, TATCH, TFILE, TIME, TINIT, TREAD, TRWD, TWAIT (ref.1)

In addition it calls STORX.

3.2.1.2 Interfaces

Entries to LECTAP interface through the calling sequence and and through labeled common /STATUS/.

The interface to STORX is through the calling sequence and the labeled common /ANCIL/.

3.2.1.3 Inputs

DOTLDB is run in batch mode by the following deck:

```
$JOB/NAME=CAMS/MCK/ACCOUNT=160 250
$DATA
0 0 999
$EUD
$MCK RUN DOTLDB
$EUD
```

DOTLDB reads a spectral unload utility tape from the ERIPS system. A spectral unload utility tape is in universal format. The header is identical to the usual image unload tape header. The image is replaced with spectral values for the 209 grid points. One tape may contain 1000 acquisitions. DOTLDB will handle 999 acquisitions.

3.2.1.4 Outputs

DOTLDB creates a report on the line printer reporting each segment loaded to the Spring Wheat Data File (fig2).

SPECTRAL DATA UNLOAD REPORT 'SMCHNO'

PAGE 1

DATE 0/20/78
FILE 14025126

SECRET NO. YEAR JULIAN DATE

1644 78 257
194 78 257
193 78 257
1567 78 257
1648 78 257
867 78 257
878 78 257
894 78 257
893 78 257
870 78 257
882 78 257
849 78 257
879 78 257
875 78 257
868 78 257
884 78 257
863 78 257
866 78 257
872 78 257
898 78 257
885 78 257
890 78 257
139 78 257
883 78 257
894 78 257
874 78 257
855 78 257
886 78 257
892 78 257
842 78 257
809 78 257
806 78 257
136 78 257
802 78 257
817 78 257
1603 78 246
821 78 215
808 78 215
160 78 215
119 78 215
819 78 215
813 78 215
102 78 215
810 78 215
106 78 215
168 78 215
812 78 215
105 78 215
811 78 215
174 78 215

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Figure 2 DOWNS REPORT 103 v. part

The spectral values for 209 points are passed to STORX to be stored in [200,7] DOTDATA.ACA under the code 'SWCHJ' where J=1, ...,4 is the channel number, with the acquisition date for date (DAT(1), DAT(2)).

3.2.1.5 Storage

Total space allocated = 6727.

3.2.1.6 Description

DOTLDB first reads the batch deck to identify the tape drive used and the number of acquisitions to be loaded. It then initializes the tape drive and starts processing. The processing is accomplished in a DO Loop which reads the header, obtains the segment number and date, then reads the dot data. The dot data is loaded into 4 linear arrays (CHJ(209), J=1,4) in natural order, not the order implied by the (11,19) dimensioning in STORX, and passed to STORX for storing. After this processing, is complete, for all acquisitions, the tape is rewound and a line printer report is created.

3.2.1.7 Flowchart

Not applicable.

3.2.1.8 Listing

PCJBYHAY 170PLUS V02-51 87053136 00SEP78 PAGE 2
 DATLDD,STA /T08HLACMS/HR

```

0039 20 20 R=1,T0TEIL
0040 CALL TREAD(2,BUFF1,1500)
0041 CALL TATT(2)
0042 IF(1.EQ.X6A) GO TO 33
0043 CALL S4A3(SEGN)
0044 CALL PRTASC(BUFF1(2749),4(1),3)
0045 C(1)=A(2)
0046 C(2)=A(1)
0047 PRTASC(2,111,C(1)) DATE(1)
0048 CALL PRTASC(BUFF1(2253),A(1),3)
0049 C(1)=A(2)
0050 C(2)=A(1)
0051 C(3)=A(3)
0052 PRTASC(3,111,C(1)) DATE(2)
0053 X=Z*4
0054 PRTASC(1,X)SEGN
0055 PRTASC(2,X)DATE(1)
0056 PRTASC(3,X)DATE(2)
0057 CALL TREAD(2,BUFF2,630)
0058 CALL TATT(2)
0059 IF(1.EQ.X36A) GO TO 30
0060 CALL TFILE(2,1)
0061 GO TO P=1,1 ILPAR CHANNEL ARRAYS (CH1 ETC.)
0062 J=1,X(1,P) :N ATURAL (1,11) ORDER
0063 K=1,X(2,P) :N (11,15) IMPLIED BY STOPX (AND FETCX)
0064 1 CH1(N)=BUFF2(J)
0065 CH2(N)=BUFF2(J+19)
0066 CH3(N)=BUFF2(J+35)
0067 CH4(N)=BUFF2(J+57)
0068 J=J+1
0069 K=K+1
0070 IF(A.NE.(INDEX(P)+19)) GO TO 1
0071 10 CONTINUE
0072 CALL STOPX(SEGN,CH1,5K(P+1))
0073 CALL STOPX(SEGN,CH2,5K(P+2))
0074 CALL STOPX(SEGN,C 3,5K(P+3))
0075 CALL STOPX(SEGN,CH4,5K(P+4))
0076 CONTINUE
0077 20 CALL TATT(2)
0078 30 CALL TATT(2)
0079 35 D=1,X :WRITE THE LINE PRINTER REPORT
0080 IF(1.EQ.X5) GO TO 31
0081 32 LINC=LINC+1
0082 WRITE(6,112) (PRTASC(G,D),G=1,3)
0083 33 T=35
0084 31 LINC=0
0085 PAGE=PAGE+1
0086 WRITE(6,107) PAGE
0087 WRITE(6,113) X,Y,2
0088 WRITE(6,114) (E(L),L=1,4)
0089 WRITE(6,109)
0090 34 T=32
0091 35 CONTINUE
0092 WRITE(6,104)
0093 STOP
0094 END

```

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PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
1	CODE 1	001612	453
2	DATA 1	000114	38
3	DATA 2	000440	144
4	DATA 3	027500	6048
5	DATA 4	000004	2
6	DATA 5	000120	40
7	DATA 6	000004	2

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
B	102	4-027464	CODE	102	6-000000	D	102	4-027472
J	102	4-027460	K	102	4-027470	L	102	4-027476
MTALFS	102	1-027441	P	102	4-027460	PAGE	102	4-027450
TRAIL	102	4-027462	41	102	7-000000	42	102	7-000002
V	102	4-027451	2	102	4-027452			

ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
A	101	4-000000	000010	4 (8)
AA	102	4-011270	000006	3 (2)
BUFF1	101	4-000010	005764	1536 (3060)
BUFF2	101	4-025056	012354	630 (1260)
C	101	4-027432	000004	2 (4)
CH1	102	4-005774	000642	219 (205)
CH2	102	4-005774	000642	219 (205)
CH3	102	4-007500	000642	219 (205)
CH4	102	4-010342	000642	219 (205)
DATE	102	6-000002	000004	2 (2)
E	102	4-011260	000010	4 (4)
F	101	4-000004	000004	2 (4)
FILL	102	6-000010	000110	36 (36)
INDX1	102	4-011204	000026	11 (11)
INDX2	102	4-011202	000026	11 (11)
PRIFIL	102	4-011276	013560	3070 (271000)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-010712	10	00	20	00
32	1-010704	35	1-010742	100	3-000000
107	3-010014	109	00	109	3-000104
112	3-010164	113	3-000204	114	3-000232

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FORMAT IV-PLUS V02-01
 D01C0.FTN /TRIBL2CKS/NR

FUNCTIONS AND SUBROUTINES REFERENCED

ASSIGN	EXT	SC	ICATE	WPEUS	STACH	SWAB	TATCH	TFILE	TIME	TIMY	TREAD	TRWD	TWATY
--------	-----	----	-------	-------	-------	------	-------	-------	------	------	-------	------	-------

TOTAL SPACE ALLOCATED = 032216 6727

NO FPP INSTRUCTIONS GENERATED

D01C06.LP10101TLCR

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3.2.2 SOFTWARE COMPONENT NO. 2 (SWLOD)

SWLOD (Spring Wheat Load) reads a CCIT tape and, for each spring wheat segment, loads the analyst dot labels into the Spring Wheat Data File.

3.2.2.1 Linkages

SWLOD runs in batch mode from a deck. It calls CDRED and LABLOD. CDRFD is documented in (ref.1).

3.2.2.2 Interfaces

SWLOD and LABLOD interface with CDRED through the calling sequence and the labeled commons /CBIAS/, /DUMMY/, /CLCOM/. These are implemented by the statement INCLUDE 'COMMON1.DAT'.

3.2.2.3 Inputs

The batch deck for SWLOD is:

```
$JOB/NAME=CAMS/MCK/ACCUUNT=160 250
$DATA
M
1
$EUD
$MCK RUN SWLOD
$EUD
```

SWLOD reads a standard LACIE 7 CAMS-CAS interface tape. Full description of this tape can be found in (ref.).

3.2.2.4 Outputs

None.

3.2.2.5 Storage

Total space allocated = 8015.

3.2.2.6 Description

SWLOD is the driver for the program which loads analyst labels to Spring Wheat Data File. CDRED on first calling, determines from the batch deck, which tape unit to read. CDRED then reads one record. SWLOD tests each record to determine whether it is a header record or an End Of File record. For header records, segment number and spring wheat marker are obtained. If the spring wheat marker is 'S', then LABLOD is called when a 'D' record is found.

3.2.2.7 Flowchart

Not applicable.

3.2.2.8 Listing

3.2.2.8

F442AV 14-0105 VC2-51

07139143

14-SEP-78

PAGE 1

SALVAFY /TYPE/CKS/LH

C S-L-2 L-2AMS ANALYST LABELS FROM CCIT 2512 2NDAPT DATA BASE

C A. A. BERRARDEN AUGUST 1978

C001 INCLUDE TYPE=H(A=2)

C002 INCLUDE TYPE=H(A=2)

C003 TYPE=H(A=2)

C004 TYPE=H(A=2)

C005 TYPE=H(A=2)

C006 TYPE=H(A=2)

C007 TYPE=H(A=2)

C008 TYPE=H(A=2)

C009 TYPE=H(A=2)

C010 TYPE=H(A=2)

C011 TYPE=H(A=2)

C012 TYPE=H(A=2)

C013 TYPE=H(A=2)

C014 TYPE=H(A=2)

C015 TYPE=H(A=2)

C016 TYPE=H(A=2)

C017 TYPE=H(A=2)

C018 TYPE=H(A=2)

C019 TYPE=H(A=2)

C020 TYPE=H(A=2)

C021 TYPE=H(A=2)

C022 TYPE=H(A=2)

C023 TYPE=H(A=2)

C024 TYPE=H(A=2)

C025 TYPE=H(A=2)

C026 TYPE=H(A=2)

C027 TYPE=H(A=2)

C028 TYPE=H(A=2)

C029 TYPE=H(A=2)

C030 TYPE=H(A=2)

C031 TYPE=H(A=2)

C032 TYPE=H(A=2)

C033 TYPE=H(A=2)

C034 TYPE=H(A=2)

C035 TYPE=H(A=2)

C036 TYPE=H(A=2)

C037 TYPE=H(A=2)

C038 TYPE=H(A=2)

C039 TYPE=H(A=2)

C040 TYPE=H(A=2)

C041 TYPE=H(A=2)

C042 TYPE=H(A=2)

C043 TYPE=H(A=2)

C044 TYPE=H(A=2)

C045 TYPE=H(A=2)

C046 TYPE=H(A=2)

C047 TYPE=H(A=2)

C048 TYPE=H(A=2)

C049 TYPE=H(A=2)

C050 TYPE=H(A=2)

C051 TYPE=H(A=2)

C052 TYPE=H(A=2)

C053 TYPE=H(A=2)

C054 TYPE=H(A=2)

C055 TYPE=H(A=2)

C056 TYPE=H(A=2)

C057 TYPE=H(A=2)

C058 TYPE=H(A=2)

C059 TYPE=H(A=2)

C060 TYPE=H(A=2)

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SECRET

NAME	TYPE	SIZE	ATTRIBUTES
1	PCDATA	000422	PH.L.CCN.LCL
2	PCDATA	000510	PH.L.CCN.LCL
3	PCDATA	000524	PH.L.CCN.LCL
4	PCDATA	000533	PH.L.CCN.LCL
5	PCDATA	000545	PH.L.CCN.GAL
6	PCDATA	000544	PH.L.CCN.GAL
7	PCDATA	000542	PH.L.CCN.GAL
8	PCDATA	000542	PH.L.CCN.GAL

Summary

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
APDP	102	6-011133	AUTD2	102	6-013508	BACAYS	102	6-016032	BATY1	102	6-023352
AUT11	102	6-023354	CLANUM	102	7-000000	CLANUM	102	7-000002	DE	102	6-014200
FILE	102	4-000632	101	102	6-000636	102	102	6-000640	103	102	6-005672
1ARG	102	6-024774	PCC01	104	6-010100	PCC02	104	6-016104	PCC1	104	6-016070
PCC01	102	6-016120	PCC02	104	6-016124	PCC1	104	6-016110	PCC2	104	6-016074
S	101	4-005774	SFG	102	4-000646	SEGN0	102	4-006630	TC	102	6-014204

SAT-1

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
A	02	6-014126	000030	12 (32)
AGAV	102	6-005726	000042	209 (11,19)
AGAV	102	6-01553	005223	1392 (20,20)
AGAV	101	6-014034	000032	13 (20)
AGAV	102	6-007363	000074	30 (20)
AGAV	101	6-014274	000032	13 (20)
AGAV	102	6-00003	000074	30 (20)
AGAV	101	6-01571	000170	60 (20)
AGAV	101	6-01571	000030	256 (20,20)
AGAV	101	6-02456	000100	52 (20,2)
AGAV	101	6-000170	000074	30 (20)
AGAV	101	6-013210	000170	60 (20)
AGAV	102	6-01613	005510	676 (20,20)
AGAV	102	6-020642	005510	676 (20,20)
AGAV	102	6-005770	005220	1392 (20,20)
AGAV	101	6-014210	000032	13 (20)
AGAV	102	6-000054	000074	30 (20)
AGAV	101	6-014242	000032	13 (20)
AGAV	102	6-000074	000074	30 (20)
AGAV	104	6-013766	000170	60 (20)
AGAV	101	6-027706	000100	256 (20,20)
AGAV	101	6-024816	000100	32 (20,2)
AGAV	101	6-000264	000074	30 (20)
AGAV	101	6-013410	000170	60 (20)
AGAV	101	6-024876	000074	30 (20)
AGAV	101	6-023356	000010	4 (2)
AGAV	101	6-014375	000032	209 (415)

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CLUST	LOC	8-000010	000042	209	(418)
CLUST	LOC	8-000010	000010	4	(27)
CLUST	LOC	8-000010	000032	13	(26)
CLUST	LOC	8-000010	000034	1530	(13807)
CLUST	LOC	8-000010	000021	104	(279)
CLUST	LOC	8-000010	000037	255	(20083)
CLUST	LOC	8-000010	000036	12	(200)
CLUST	LOC	8-000010	000021	14	(209)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-000266	2	00	3	00
100	3-000088			6	3-000080
				10	1-000254

FOOTING IN SUBROUTINES REFERENCED

CONST LABEL

TOTAL SPOT ALLOCATE 3 037236 0015

ENTER 1577 CITIES STATE

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3.2.3 SOFTWARE COMPONENT 3 (LABLOD)

LABLOD (LABEL LOAD) calls CDRED to get all analyst labels, puts them in an (11,19) array, passes them to STORX for storage and writes a line of the report.

3.2.3.1 Linkages

Subroutine LABLOD is called by SWLOD each time a spring wheat file is found on the CCIT. It calls CDRED and STORX.

3.2.3.2 Interfaces

Interfaces with SWLOD and CDRED are the calling sequence and labeled commons /CBIAS/, /DUMMY/, /CLCOM/.

Interface with STORX is through the calling sequence and the labeled common /ANCIL/.

3.2.3.3 Inputs

All inputs are through the calling subroutines.

3.2.3.4 Output

The analyst labels are passed to 'STORX' under the code name 'SWDAFI' (For Spring Wheat Data File) with the fixed date 78,000. The fixed date means only the most recent labels are accessible.

For each batch of labels loaded, one line of printer output is generated.

82710C

ANALYST LABEL UNLOAD REPORT 'SUDAFI' 78100
SEGMENT 1000 L'APED
SEGMENT 1000 L'APED
SEGMENT 1000 L'APED

Figure 3 OUTPUT FROM LABLOD

192 001 1 -AF-000

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3.2.3.5 Storage

Total space allocated = 6873

3.2.3.6 Description

LABLOD first sets the storage date to 78,000. It then loads and reads analyst dot labels into an array which is (11,19). This is not the natural dot order. Having loaded all the dot labels, they are passed to STORX for storage under the code 'SWDAFI' at date 78,000. Then control is passed back to SWLOD.

3.2.3.7 Flowchart

Not applicable.

3.2.3.8 Listing

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3.2.3.8 5 3078 8/03/82 161816 00/507 161816 00/507

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 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3.2.4 SOFTWARE COMPONENT 4 (STORX)

STORX is identical to the program STORE except that the Spring Wheat Data File [200,7] DATDATA.ACA is accessed rather than a local file.

3.2.5 SOFTWARE COMPONENT 5 (CAMPLT)

CAMPLT runs in batch mode from a deck supplied by FLOCON when requested by a CAMS analyst. It accesses the spring wheat data file and creates spectral plot output which is given to the analyst.

3.2.5.1 Linkages

CAMPLT runs in batch mode. It calls FETCX and *SWPLT*

3.2.5.2 Interfaces

CAMPLT interfaces with FETCX through the calling sequence and through the labeled common /ANCIL/.

CAMPLT interfaces with SWPLT through the calling sequence and through the labeled commons /GRAPH/ and /PLOT/.

3.2.5.3 Inputs

CAMPLT reads the FLOCON supplied analyst deck (fig)4.

CAMPLT reads the data file [200,7] SOIL.DAT to get the estimated soil greenness value.

CAMPLT obtains spectral values for the dots from the spring wheat data file through FETCX.

3.2.5.4 Outputs

Output from CAMPLT is as follows:

1. Listing of the dots in natural order with labels, dot identification, and green number, brightness coordinates.
2. Listing of the dots in green number order with labels, dot identification, and green number, brightness coordinates.

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Change 1
March 8, 1979

Figure 4

3. Plot of the dots in Brightness, Green number, plotting character is analyst label, or number of hits.
4. Density plot, more hits plot darker, in Brightness, Green number.
5. Listing of the 209 plotting labels in a 19 by 11 grid.
6. Identical to 1)-4) except Brightness, Green Number are replaced by OLPARS derived coordinates.

3.2.5.5 Storage

Total space allocated = 9953.

3.2.5.6 Description

CAMPLT first reads the batch input deck. From the first GRAPH card read it obtains the segment number, acquisition date, satellite identification, and a flag to user or not use previous analyst labels. From each DOT card it gets a valid plotting symbol and optionally, a listing of dots to plot with this symbol. A second GRAPH card, a STOP card, or an end of data initiates processing. A second GRAPH card sets a flag which continues processing after the first segment is processed.

In further processing, the first step is to read soil cards until a match for segment and date is found. If no match is found, the last one is used and a message typed.

Then, if previous analyst labels are to be used, they are retrieved by FETCX. These labels are used to label any dot not previously labeled by a DOT card.

Next the spectral values are retrieved from the Spring Wheat Data File by FETCX, (calibrated if satellite is Landsat 3,) and transformed to the plotting values. Unfortunately, space limitation required the destruction of these spectral values through an equivalence statement.

Change 1
March 8, 1979

With all the data in the machine, the next step prints the data in natural order. Then the data is put in green number order and printed.

Now the plotting starts. First the correct plotting character for each dot is defined. For the first plot only characters from Dot cards are plotted. 'N' is plotted as '.', multiple hits are plotted as numbers. For the second plot, the same dots are plotted with different characters. After these plotting characters are defined, SWPLT is called to do the actual plotting.

Then the labels are printed in grid position, OLPARS weightings are initialized and the OLPARS loop is started.

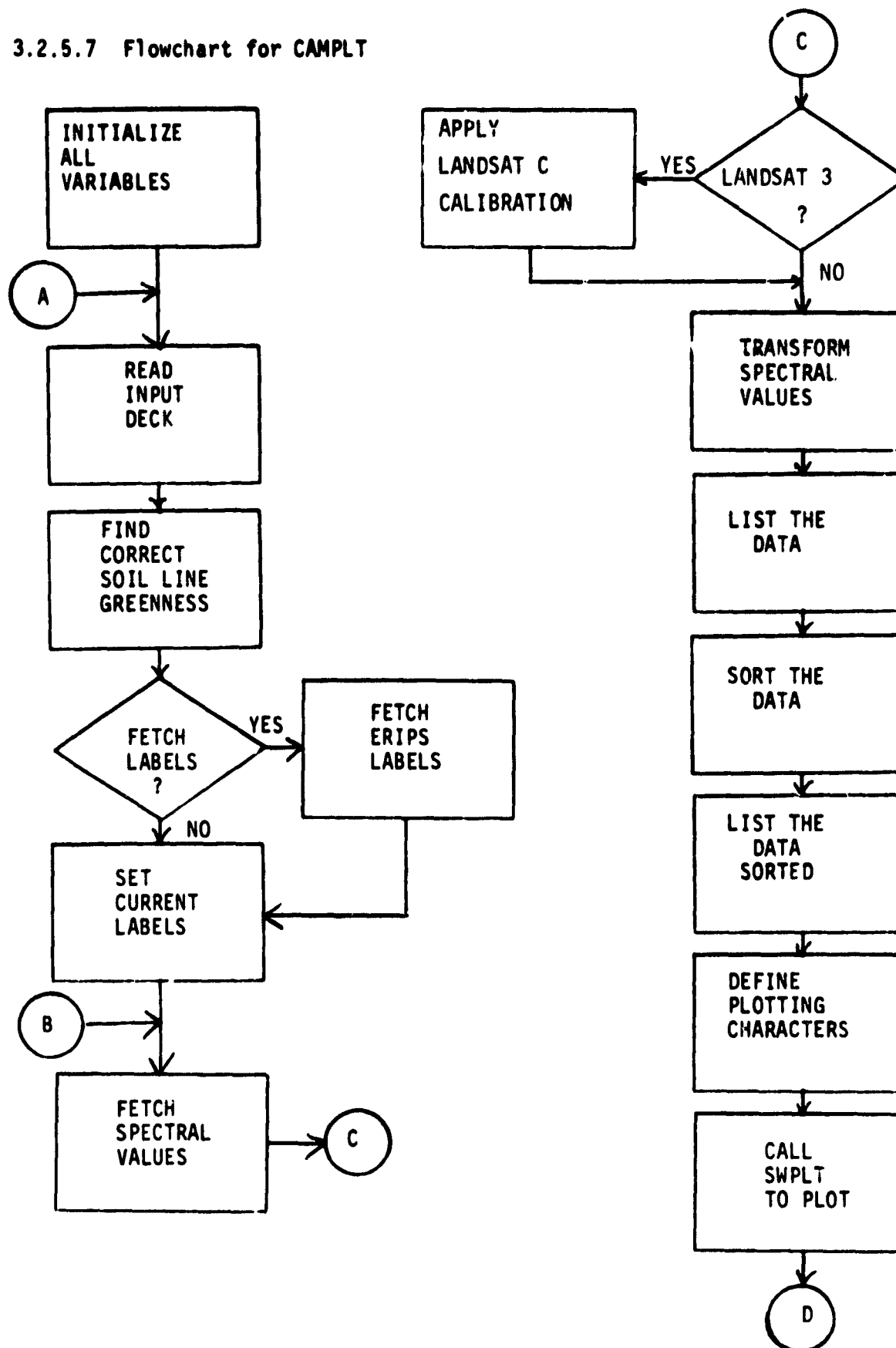
In case a second segment card initiated processing, after the OLPARS plot is made, the program loops to the beginning. Otherwise it stops.

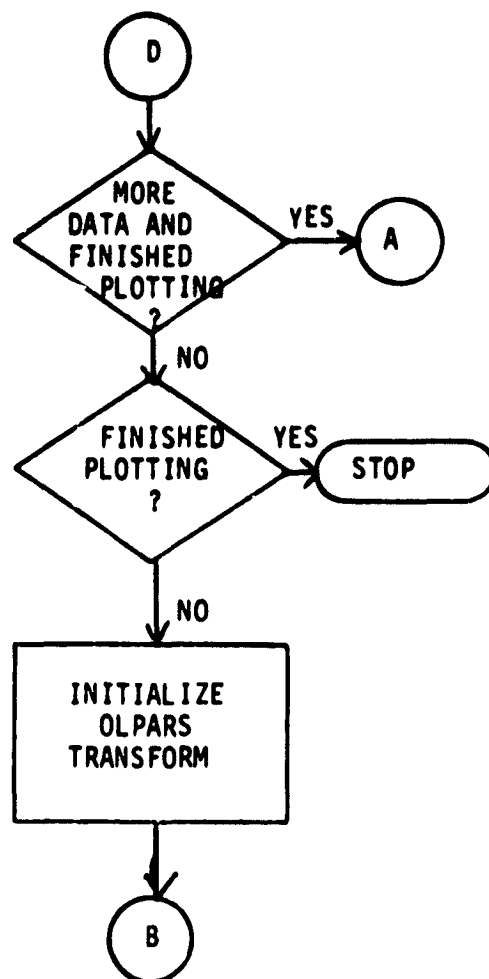
3.2.5.7 Flowchart

The Flow chart follows.

3.2.5.8 Listing

3.2.5.7 Flowchart for CAMPLT





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100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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165	9	13	C	26	64
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163	9	15	>	29	64
162	9	16	C	13	57
161	9	17	>	25	67
160	9	18	>	25	72
159	9	19	>	25	55
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157	10	2	>	9	54
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155	10	4	>	25	66
154	10	5	>	10	68
153	10	6	>	10	70
152	10	7	>	14	61
151	10	8	>	14	61
150	10	9	>	14	54
149	10	10	>	14	52
148	10	11	>	10	64
147	10	12	>	20	62
146	10	13	>	10	64
145	10	14	>	21	50
144	10	15	>	25	63
143	10	16	>	13	51
142	10	17	>	6	46
141	10	18	>	27	65
140	10	19	>	37	71
139	10	20	>	13	54
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134	11	5	>	21	64
133	11	6	>	9	37
132	11	7	>	21	69
131	11	8	>	11	59
130	11	9	>	9	53
129	11	10	>	30	66
128	11	11	>	20	66
127	11	12	>	14	54
126	11	13	>	25	72
125	11	14	>	40	75
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143	10	16	>	13	51
142	10	17	>	6	46
141	10	18	>	27	65
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139	10	20	>	13	54
138	11	1	>	9	50
137	11	2	>	11	59
136	11	3	>	20	63
135	11	4	>	24	71
134	11	5	>	21	64
133	11	6	>	9	37
132	11	7	>	21	69
131	11	8	>	11	59
130	11	9	>	9	53
129	11	10	>	30	66
128	11	11	>	20	66
127	11	12	>	14	54
126	11	13	>	25	72
125	11	14	>	40	75
124	11	15	>	11	68
123	11	16	>	12	59
122	11	17	>	20	74
121	11	18	>	14	53
120	11	19	>	10	60
119	12	1	>	10	60

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64	4	7	C	37	48
65	4	8	>	22	52
66	4	9	C	48	37
67	4	10	X	44	45
68	4	11	>	34	47
69	4	12	>	38	46
70	4	13	>	31	49
71	4	14	>	35	49
72	4	15	>	26	50
73	4	16	>	36	48
74	4	17	S	23	54
75	4	18	>	28	51
76	4	19	>	30	50
77	5	1	A	25	53
78	5	2	>	27	48
79	5	3	>	34	44
80	5	4	>	33	49
81	5	5	>	29	51
82	5	6	>	20	51
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97	6	2	P	34	47
98	6	3	P	37	44
99	6	4	P	22	51
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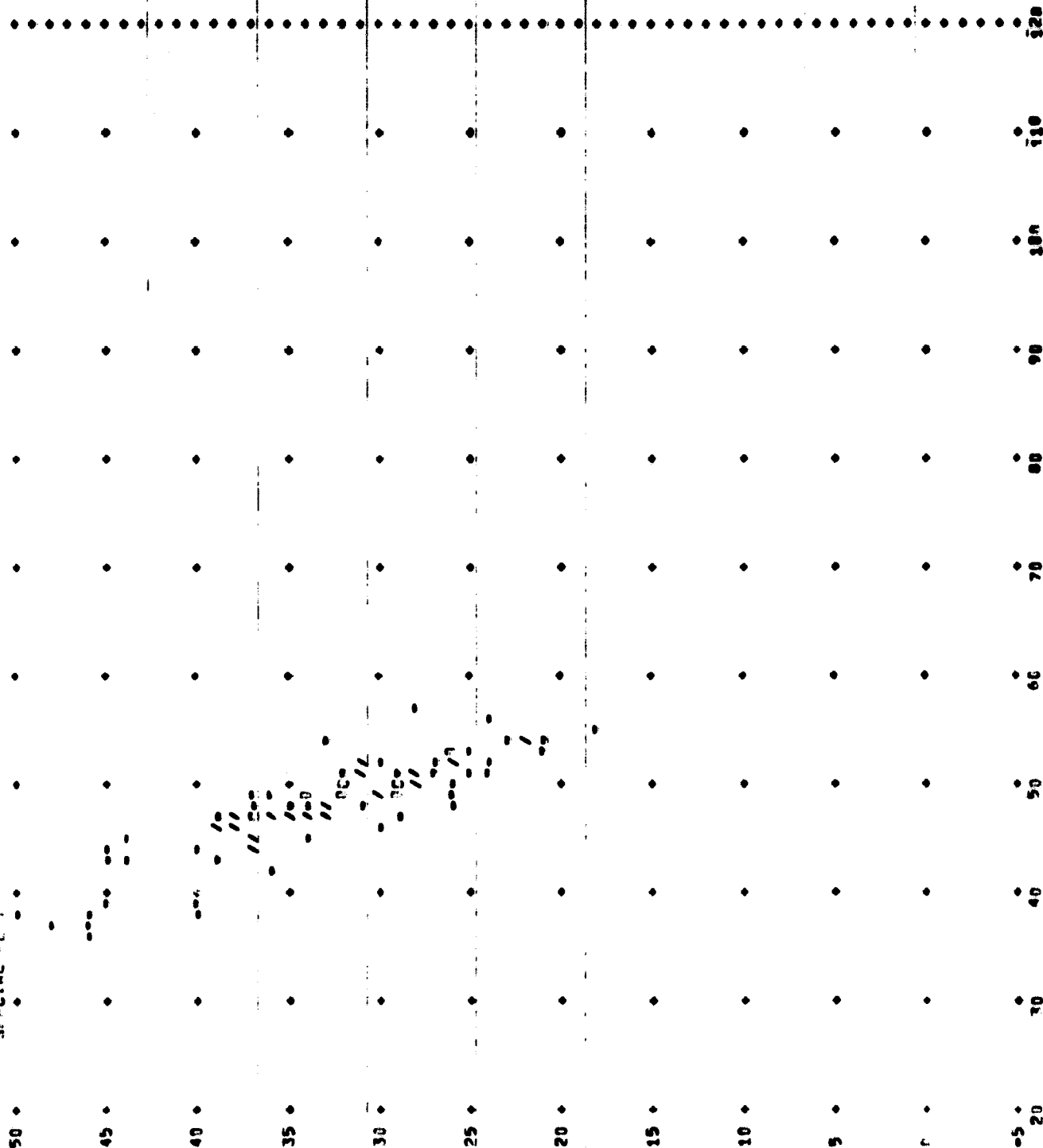
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SPECIAL PLAT--SEGMENT 211 76247 SAIL LINE 26

SPECIAL PLAT



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0006 2021 FORMAT(7111)
0007 0 =P11E(0,22) A18,1N
0008 622 FOR=AT( '00,24,7111)
0009 1200
0010 L(1,10)2AL
0011 1200
0012 IF(EN .GT. 0)1200
0013 DO 4001 121,71
0014 IF(121(1) .NE. ' ') 121001(1,1)
0015 IF(121(1) .EQ. ' ') .AND. 121 .NE. 0) D121(1,1)2AL
0016 4001 IF(121(1) .EQ. ' ') 121 = 0
0017 50 10 1
0018 4005 FORMAT( DECE PROPLEM C1N (AND SFC 0,15,1 SEC (AND SFC 0,15)
0019 45A CONTINUE
0020 OPER=UNIT2=MAPER(1200,7101L,0AT',TYPE=OLD',
0021 C ACCESS=SEQUENTIAL)
0022 400 CONTINUE
0023 C SOIL LINE INPUT FROM INPUT CARD STANTS 'MIN'
0024 C THIS DATA IS LOGICALLY UPDATED WITH CARDS FROM LARS
0025 C THE CARDS ARE GENERATED BY O.A.S. USING BIN CARDS
0026 C FROM DATA PROCESSED BY PROGRAMS ON JSC008
0027 READ(2,4001,ERR=0,END=0) 517,11N
0028 0 =P11E(0,22) A18,1N
0029 4001 FORMAT(0,12,013)
0030 IF(517 .NE. 1)517(1)60 TO 400
0031 IF(121(1) .NE. SEC) 60 TO 400
0032 IF(121(5) .NE. DTE(1)) 60 TO 400
0033 IF(121(6) .NE. DTE(2)) 60 TO 400
0034 4002 FORMAT( ' GOOD UNF')
0035 4005 CONTINUE
0036 4006 REWIND 2
0037 4007 1200
0038 4008 CLOSE(UNIT2)
0039 4009 IF(121(1) .NE. SEC) 121(1) = 121(1) SEC
0040 DTE(0)121(1) 121(1) IS THE SOIL GREENNESS ESTIMATED BY LARS
0041 121(0,22) 121(1) SEC, DTE(2)121(1) SEC, DTE(2)121(1) SEC, DTE(2)121(1) SEC
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0177 J1=1-(L1-1)*10
0178 J2=12-(L2-1)*10
0179 WRITE(6,1000) I1,L1,J1,CLBL(11),DLBL(11),IPV(11),IPX(11),
      12,L2,J2,CLBL(12),DLBL(12),IPV(12),IPX(12)
      C
0180 074 CONTINUE
0181 WRITE(6,1000)
0182 1000 FORMAT(11)
0183 DO 075 I=1,17,163
0184 I=13*07
0185 I=13*11/10+1
0186 I=13*11/10+1
0187 J=13*11/10+1
0188 J=13*11/10+1
0189 WRITE(6,1000) I3,L3,J3,CLBL(13),DLBL(13),IPV(13),IPX(13),
      14,L4,J4,CLBL(14),DLBL(14),IPV(14),IPX(14)
      C
0190 075 CONTINUE
0191 1003 FORMAT(13,10,10,24,10,15,110,10,10,24,20,10,13)
0192 200 CONTINUE
0193 WRITE(6,1204) SFC,IO,DTG(4)
0194 FORMAT(1) SEGMENT,10, DATE,17, SOIL LINE,10,17)
0195 1204 FORMAT(15,'GREEN NO. RT DGTNG LINE PIX LML'
      C,15X,'GREEN NO.1X,10RT,1X,DGT NO.1X,LINE,1X,PIX,1X,LML')
0196 IF(CAC.FG.0)WRITE(6,1205)
0197 1200 FORMAT(15X, Y Z DOTNO LINE PIX LML,
      16X, Y Z DOTNO LINE PIX LML)
0198 IF(CAC.EQ.1)WRITE(6,1200)
      C NO= SORT BY IPV ORDER SECONDARY SORT ON IPX
0199 DO 210 I=1,210
0200 210 I=1101
0201 I=1000
0202 000 I=1
0203 LAMNO ICHANGE FLAG
0204 211 CONTINUE
0205 IF(I.EQ.200) GO TO 250 ITERATION LIMITER
0206 IF(IPVTAB(I)) .LT. IPV(TAB(I+1)) GO TO 220
0207 IF(IPVTAB(I)) .EQ. IPV(TAB(I+1)) GO TO 221
0208 ITABTAB(I) ISUP PLACES
0209 TAB(I)=TAB(I+1)
0210 TAB(I+1)=ITAB
0211 LAMNO IFLAG ONE SWAP
0212 GO TO 220
0213 IF(IPVTAB(I)) .GT. IPV(TAB(I+1)) GO TO 223
0214 I=I+1
0215 IF(I.LT.200) GO TO 211
0216 ITERATION,1 ITERATION COUNTER
0217 IF(LAMN.EQ.0) GO TO 250
0218 LAMNO
0219 I=1
0220 GO TO 211
0221 CONTINUE ITHUS END THE SORT
0222 NO 212 I=1,50
0223 I=1000(I)
0224 I=1000(I+50)
0225 L=1000(I)/10+1
0226 L=1000(I)/10+1
0227 J=15-(L5-1)*10
```

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0277 302 CONTINUE
0278 0 WRITE(0,30) ((I,CAN(I),CAN(I)),I=1,200)
0279 339 FORMAT(10F10.4)
0280 0 WRITE(0,0) 300,100,DTIME(4)
0281 0 FORMAT(1,1,200,100,SPECIAL PLOT-SEGMENT '.15,10,' SOIL LINE',10)
0282 0 IF(CAN.EQ.0) WRITE(0,3040)
0283 0 IF(CAN.EQ.0) WRITE(0,3042)
0284 0 IF(CAN.EQ.0) WRITE(0,3043)
0285 0 IF(CAN.EQ.0) WRITE(0,3042)
0286 0 IF(CAN.EQ.0) WRITE(0,3042)
0287 0 IF(CAN.EQ.0) WRITE(0,3040)
0288 0 CALL SPLITCAN
0289 0 IF(CAN.EQ.0) WRITE(0,3043)
0290 0 IF(CAN.EQ.0) GO TO 3041
0291 3042 FORMAT(1,1,200,100)
0292 3043 FORMAT(1,1,200,100)
0293 0 IF(CAN.EQ.0) WRITE(0,3043)
0294 3040 FORMAT(1,1,200,100)
0295 3031 FORMAT(1,1,200,100)
0296 0 WRITE(0,3034) 1000 LABEL 5000 OUTPUT (J,301,10)
0297 3034 FORMAT(1,1,200,100)
0298 0 DO 3033 001,11
0299 0 IF(001.EQ.1) 01
0300 0 IF(001.EQ.1) 01
0301 3033 01
0302 3041 IF(FLAG.EQ.2,AND. CAN.EQ.0) GO TO 010
0303 0 IF(CAN.EQ.0) STOP
0304 0 CANS1 IMPOSE THE OPEN PROJECTION IS INITIALIZED
0305 0 010,050
0306 0 010,050
0307 0 010,150
0308 0 010,31
0309 0 010
0310 0 010,135
0311 0 010,1200
0312 0 010,737
0313 0 010,2010
0314 0 010,27.5
0315 0 010
0316 0 010
0317 3030 FORMAT(1,1,200,100)
0318 3 010
0319 0 END

```

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PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
1	SCODE1 010152 2101		R=I,CON,LCL
2	SCDATA 000210 00		R=I,CON,LCL
3	SIDATA 001030 403		R=I,CON,LCL
4	SIDATA 001030 403		R=I,CON,LCL
5	SIDATA 001030 403		R=I,CON,LCL
6	GRAPH 000010 4		R=I,CON,LCL
7	ANCLL 000120 40		R=I,CON,LCL
8	PLOT 001210 036		R=I,CON,LCL

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
AL	I=2	0-030776	AVST	I=0	0-006572	BLANK	L=1	0-007007
CONV	R=0	0-006402	CONV	R=0	0-006572	DASH	L=1	0-007010
GCG	I=2	0-030754	GIN	I=0	0-003262	HIGHX	I=2	0-007050
IF	I=2	0-031110	III	I=2	0-031112	IOD	I=0	0-003266
ITER	I=2	0-030760	IV	I=2	0-031002	IV	I=2	0-031100
J3	I=2	0-031030	J4	I=2	0-031032	IS	I=2	0-031050
J6	I=2	0-031066	J	I=2	0-030776	JJ	I=2	0-031012
J2	I=2	0-031026	J3	I=2	0-031026	J4	I=2	0-031040
J7	I=2	0-031074	J8	I=2	0-031076	K	I=2	0-031080
KL	I=2	0-031106	K7	I=2	0-031106	L	I=2	0-031102
LOWV	I=2	0-030766	L1	I=2	0-031020	L2	I=2	0-031022
L5	I=2	0-031054	L6	I=2	0-031056	L7	I=2	0-031070
NEG	I=2	0-031216	PLUS	L=1	0-007000	Q	I=2	0-000321
R3	R=0	0-030706	R4	R=0	0-030712	R5	R=0	0-030740
STATUS	I=2	0-000006	SVH	I=2	0-003216	S1	R=0	0-030710
S4	R=0	0-030732	S5	R=0	0-030740	S6	R=0	0-030750

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ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
CON	L=1	0-001506	000321	104 (209)
CHN	L=1	0-025224	000020	0 (16)
CHV	L=1	0-007011	000013	5 (11)
CHI	I=2	0-001506	000002	209 (209)
CH2	I=2	0-000606	000002	209 (209)
CH3	I=2	0-023046	000002	209 (209)
CH4	I=2	0-023710	000002	209 (209)
CHL	L=1	0-000322	000322	105 (210)
CH5	R=0	0-000606	000100	32 (16)
CHV	R=0	0-004706	000100	32 (16)
CH7	L=1	0-000604	000321	104 (209)
DATE	I=2	0-000002	000002	2 (2)
DLBL	L=1	0-000000	000322	105 (210)
DOTLEY	L=1	0-025248	000002	209 (209)
DDYNO	I=2	0-030034	000002	209 (209)
DRAT	I=2	0-000000	000002	2 (2)

ATRIPOLOCS/NO

DIE	I-4	0-003226	000030	12	(6)
FILL	I-2	7-000010	000110	36	(36)
FMAP	L-1	0-000322	000321	104	(19,11)
GMAP	L-1	0-000000	000321	104	(19,11)
GY	L-1	0-002350	000662	209	(2,209)
GMAP	I-2	0-002350	000662	209	(11,19)
GYP	L-1	0-002350	000662	209	(2,11,19)
ISM	I-2	0-024552	000020	8	(8)
ITN	I-4	0-000502	000030	12	(6)
IN	L-1	0-024216	000107	35	(71)
IA	L-1	0-020107	000107	35	(71)
INDEX	I-2	0-020326	000662	209	(209)
IPX	I-4	0-003272	001510	420	(210)
IPY	I-4	0-005002	001510	420	(210)
IOV	L-1	0-025176	000000	3	(6)
LAL	L-1	0-020572	000050	20	(40)
MAP	L-1	0-007020	010021	3000	(101,01)
NAME1	L-1	0-025204	000010	4	(8)
NAME2	L-1	0-025214	000010	4	(8)
NUM	L-1	0-024662	000013	5	(11)
PLX	R-4	0-000000	001504	410	(209)
PLV	R-4	0-001504	001504	410	(209)
PTC	L-1	0-020055	000391	104	(209)
TAR	I-2	0-027170	000004	210	(210)
TEST	I-4	0-000512	000030	12	(6)

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LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-000036	2	00	3	00	71	00
91	3-001212	10	00	19	00	123	00
200	00	210	00	211	00	213	00
220	1-005010	221	1-000732	223	1-000004	300	00
302	00	312	00	313	1-000000	314	00
330	00	401	1-000026	402	1-000574	404	1-001222
405	1-001400	440	3-000100	440	00	450	1-001204
616	00	620	00	621	00	623	00
620	00	620	00	630	00	640	00
900	3-000000	910	1-002002	910	1-000032	970	00
1000	00	1003	3-000502	1004	3-000550	1005	3-001132
1201	3-000166	1202	3-000306	1203	3-000400	1204	3-000642
1206	3-001022	2010	00	2020	3-000014	2021	3-000030
3031	3-001364	3033	00	3034	3-001432	3040	3-001332
3042	3-001270	3043	3-001310	3302	1-001000	4003	3-000030
4001	00	4041	3-000124	4042	00	4043	00

FUNCTIONS AND SUBROUTINES REFERENCED

CLOS PETCH OPENS SUBIT

TOTAL SPACE ALLOCATED = 006702 0953

3.2.6 SOFTWARE COMPONENT 6 (SWPLT)

The program from which CAMPLT grew had the wrong format for the plots. SWPLT was added to do the plotting in the correct format. There are many unused statements in SWPLT.

3.2.6.1 Linkages

SWPLT is called by CAMPLT after the plotting characters are defined.

3.2.6.2 Interfaces

SWPLT interfaces with CAMPLT through the calling sequence and the labeled commons /GRAPH/ and /PLOT/.

3.2.6.3 Inputs

All inputs for SWPLT are from CAMPLT.

3.2.6.4 Outputs

SWPLT creates the actual line printer plot. The headings are created by CAMPLT.

3.2.6.5 Storage

Total space allocated = 5073

3.2.6.6 Description

SWPLT clears the graph array, enters the plotting characters, and writes the graph to the line printer.

3.2.6.7 Flowchart

Not applicable.

3.2.6.8 Listing

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0001 C          SUBROUTINE SPLT(C1A4)
0002 C          THIS PROGRAM IS A MODIFIED VERSION OF ANOTHER
0003 C          PROGRAM AND USES STATEMENTS
0004 C          ITS PURPOSE IS TO CREATE SPECTRAL PLOTS IN THIS FORMAT
0005 C          IT IS CALLED BY C1A4
0006 C          PLT1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219,1220,1221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PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
2	TC LCL	000962	249
3	DATA 000006	15	000006
4	DATA 017006	1970	000006
5	DATA 000010	000	000006
7	DATA 000006	3	000006

ENTRY 021.75

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
SPLT		1-000000									

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
BLANK	L01	4-017356	DASH	L01	4-017352	D7L	L01	4-017357	D7Y	L01	4-017352
J	L02	4-017374	K	L02	4-017376	L	L02	4-017372	LW	L01	4-017351
SPLT	L02	4-017364	PCEV	L01	4-017366	PERIOD	L02	4-017362	PLUS	L01	4-017355
STAN	L01	4-017354	X	L01	4-017368	Y	L02	4-017370	SEG	L01	4-017355

ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
ALABEL	L01	4-017332	000010	4 (12)
B0	L04	4-001600	001514	410 (1205)
B02P	L04	4-001600	001514	410 (11,15)
CHAB	L01	4-001600	000321	1 4 (215)
CP1	L02	4-017372	000642	209 (215)
CH2	L02	4-017372	000642	209 (205)
CH3	L02	4-017372	000642	209 (205)
CH4	L02	4-017372	000642	209 (205)
DET	L02	4-017372	000642	209 (205)
DATE	L02	4-017372	000642	209 (205)
G	L04	4-017372	001514	410 (11,15)
CHAP	L04	4-017372	001514	410 (11,15)
ICH	L02	4-017372	000642	209 (11,15)
RSP	L02	4-017372	000642	209 (11,15)
F	L02	4-017372	000642	209 (11,15)
PLABEL	L01	4-017342	000010	4 (12)
RAD	L02	4-017372	000642	209 (11,15)
SCALE	L04	4-017372	001514	410 (11,15)
TRAJ	L01	4-001600	000642	209 (11,15)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
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OF POOR QUALITY

26	00	106	00	105	00	200	00	5-CHUC00
400	00	970	00	901	00	502	00	5-CHUC00
520	3-10310	906	00	907	00	903	00	
910	00	911	00	912	00	913	00	
915	00	910	00	917	00	910	00	
509	00							

TOTAL SPACE ALLOCATED = 821642 9273

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 OF POOR QUALITY

3.2.7 SOFTWARE COMPONENT 7 (FETCX)

FETCX is identical to FETCH except that it accesses [200,7] DOTDATA.ACA rather than a local file. FETCH is an undocumented utility.

4. OPERATION

Each module in this system is run by a batch deck. FLOCON has copies of these decks. Maintenance and generation of the data files is not addressed in this document.